

TIME	LENGTH (hrs)	SESSION
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Wednesday Afternoon

1:00-1:30	0.5	Introduction of all participants, purpose , goals of meeting, some GW S&T background, etc (Wayne, Bill or others)
1:30-2:30	1	Data Warehouse
2:30-3:00	0.5	break
3:00-4:00	1	Data Warehouse
4:00-5:00	1	Water Use

Thursday

7:30-8		coffee
8:00-9:30	1.5	Data Analysis and Censoring
9:30-10:00	0.5	break
10:00-11:15	1.25	Data Analysis and Censoring
11:15-12:15	1	Ancillary and other data
12:15-1:30	1.25	lunch (do we try to see about boxed lunch)
1:30-2:15	0.75	Ancillary and other data
2:15-3:00	0.75	Extrapolation
3:00-3:30	0.5	break
3:30-4:45	1.25	Extrapolation

Friday Morning

7:30-8		coffee
8:00-10:00	2	HBSL and MCLs
10:00-10:30	0.5	break
10:30-12:00	1.5	Report Planning
12:00-12:30	0.5	Wrap-up and session summaries
12:30-3:00		Open for aquifer report teams to meet

SESSION	PRESENTER OR LEAD	TIME	TIME
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Wednesday Afternoon, April 20, 2005

MEETING INTRODUCTION (30 min)	Ann Ardis, Kelly Warner, Wayne Lapham - Session Leads		
(1) Introductions, logistics, GW S&T Program with emphasis on Analysis & Reports activities, Purposes of this meeting, etc	Wayne Lapham	30 min	20 min
(2) Where NAWQA is headed in Cycle II, etc	Bill Wilber		10 min

DATA WAREHOUSE: Approaches and Helpful Hints (1 hr)	Ken Skach - Session lead		
(1) Approaches to data retrievals	Ken Skach	20 min	20 min
A. Data from the Data Warehouse			
Restrict by schedule(s) or parameter(s), by site(s) or network(s)			
DWH can perform calculations during retrieval, such as percentiles.			
QC data is included unless explicitly de-selected; if unwanted, use Medium and/or Sample Type to de-select.			
Including netcode or sucude can cause some samples to be repeated			
Crosstab format can sum multiple values; be sure to retrieve data with most detail possible (for example, down to "result date-time" or "sample-id"), or select "value for crosstab" instead of "value"			
DWH Cyber training, June 1-3, 1:00-3:00 EDT			
B. GIS-derived ancillary data (Kerie Hitt's web site: http://water.usgs.gov/nawqa-only/gw.html), datasets documented on web site, with "metadata". Some datasets are in DWH, others are not.			
C. Massaging or manipulating data after retrieval from DWH or GIS-derived site			
"Sample-id" is DWH-generated, and changes with every reload. Don't use this as a key field in access or other DB.			
Ken uses rdb files and scripts to filter, group, flag, link, and sort data for Carbonate Team			
Other tools used: MS Access? Others?			
(2) How does DWH handle multiple samples per well – can data be retrieved for only one instance? How does DWH determine which value is retrieved?	Ken Skach	15 min	15 min
A. Primary GW POSV patch gives one sample (or "day") per Cycle per site.			
One "primary sample" per well, per Cycle			
Where no "primary sample" is flagged, ONE sample is chosen			
i. a sample on the most recent day (in the cycle) is called "primary"			
ii. if 2 samples exist that day, the one with most parameters is "primary"			
B. "GW POSV patch last value of Day" filter			

Use this only if "GW POSV patch" is also used			
Potentially mixes results from multiple samples on the "most recent day".			
This patch used to have a bug, but is supposed to be fixed now.			
C. POSV Guidance is part of NAWQA Sample Coding Guidance, at: http://www.ark.usgs.gov/nawqa/sample-coding/outline.html			
(3) How to get corrections and updates back into data warehouse?			
A. Study Units must "fix" data in their NWIS, for uploading to DWH	Ken Skach	10 min	10 min
Do we need to coordinate data-fix requests to SUs? Or do we hit them with possibly many requests from many teams?			
B. DataSyn has set "target dates" (Dec 1, and April 1) to fix NWIS data			
C. Qwdata, GWSI, and Sitefile data are refreshed in DWH about once each month			
(4) Wrapup: Guidance, Actions Items, Other followup	All	15 min	15 min
DATA WAREHOUSE: PA Issues and Fact Sheet (1 hr)	Ken Skach - Session lead		
(5) How to update previous PA "static" datasets with "new" data from the DWH?	Ken Skach	5 min	5 min
B. Effort to define and store (in DWH) "networks" of sites for each PA team -- (handout of current PA Networks)			
C. With DWH-team's help, we can create Public DWH Queries for PA datasets, and reference the DWH Queries in PA reports.			
(6) Proposed Fact Sheet for all Principal Aquifers	Terri Arnold	10 min	10 min
(7) Is there a need to compare PA data to a "national dataset"?	Ken Skach	25 min	25 min
A. Issues faced for Summary Reports appendix graphs ("occurrence graphs")			
B. HPGW's suggested approach, -- (handout of Terri's sample graphs(?))	Pete McMahon (?) or Kelly Warner (?)		
(8) Wrapup: Guidance, Actions Items, Other followup	Terri or Kelly leads?	20 min	20 min

WATER USE (1 hr)	Molly Maupin - Session lead		
(1) Overview of aquifer report (Circular 1279). Highlighting major aquifers used for irrigation, public-supply and self-supplied industrial water use in the U.S. I'll comment on plans for the next aquifer water-use aggregation in the U.S.	Molly Maupin	15 min	15 min
(2) Overview and update on the disaggregation of stream-valley alluvial aquifer from 'Alluvial aquifer' withdrawals in selected States.	Molly Maupin	10 min	10 min
(3) Method ideas on how to assign 2000 domestic (county) ground-water withdrawals to principal aquifers.	Molly Maupin	10 min	10 min
(4) Status and update on construction of NAWQA's national site-specific public-supply database using NWIS SWUDS (Site-specific Water Use Database System). What can it tell you?	Molly Maupin	15 min	15 min
(5) Wrapup: Guidance, Action Items, Other followup	All	10 min	10 min

Thursday, April 21, 2005

DATA ANALYSIS AND CENSORING (2 hr 45 min)	Paul Stackelberg - Session lead		
(1) Censored data Issues			
A. Overview of MDL, LT-MDL & LRL reporting conventions by NWQL	Mike Rupert; Handouts	30 min	30 min
B. Overview of guidance for data censoring by the GW Trends Team			
C. Examples from VOC & Pesticides Synthesis Teams			
VOC synthesis team and circular	Mike Moran	30 min	15 min
Pesticide synthesis team and circular	Paul Stackelberg		15 min
D. Summary and Discussion	All		
Summary of censoring plans by PA and Report Teams	Chip Hunt - Handout		10 min
Discussion		40 min	30 min
Desire for consistency across reports? Across PAs?	All		
Consensus on most useful common assessment levels?	All		
Reasons and cases to depart from consensus	All		
(2) Software exchange	Chip Hunt, moderator		10 min
A. Teri Arnold's DWH-to-SPlus-to-boxplot process?	Terri Arnold	10 min	
B. Other "best examples" from particular PA teams? Graphics? Analysis?	All		
(3) Including QA/QC information in reports	Lori Apodaca		20 min
A. Available National QA summaries to cite (VOCs, Pests, Nuts, TEs)	Handouts	20 min	
B. Study-Unit QA data – when and how to include?	All		
(4) Assorted data-handling issues	Chip Hunt, moderator		20 min
A. Alkalinity – lab vs. field; ANC vs. alkalinity	All		
B. Charge balance errors	Chip Hunt - Handout	20 min	
C. Radionuclides – NWIS and DWH issues	All		
D. Other issues from the floor?	All		
(5) Wrapup: Guidance, Action items, Other followup	All	15 min	15 min

ANCILLARY DATA (1 hr 45 min)	Leslie DeSimone - Session lead		
Introduction; Session objective; Session agenda	Moderator	5 min	5 min
<i>Handout: Compiled survey responses</i>			
(1) Existing National Data Sets & Example Applications			
A. Overview of existing national data sets & Liason with national GIS group [by CYBER SEMINAR]	Curtis Price & Kerie Hitt		20 min
B. Example Application: National data sets used at regional scale to explain road salt; Development of snowfall data set (Glacial PA)	John Mullaney	40 min	10 min
C. Example Application: National and other data sets of pesticide application (Floridan PA)	Betsy Frick		10 min
(2) New & Unique Regional Data Sets & Example Applications			

A. Regional data compilation for the High Plains GW Study; Development of depth to water and unsaturated-zone data sets from point data; Analysis method for developing asymmetric buffer zones around wells.	Pete McMahon	35 min	15 min
B. GW Recharge data from RASA flow models (WEVO PA)	Mike Rupert / Chip Hunt		10 min
C. Domestic water use from census data (Glacial PA)	JoeAyotte		10 min
(3) Group / Open Discussion	All	15 min	15 min
(4) Wrapup: Guidance, Action items, Other followup	All	10 min	10 min
EXTRAPOLATION (1 hr 45 min)	Bruce Lindsey - Session lead		
(1) Introductory remarks and key session messages	Bruce Lindsey	10 min	10 min
A. Definition of extrapolation; Degrees of extrapolation vary in robustness; Issues to consider before extrapolation begins; Details of data sets must be known; Need for validation data sets; There are multiple approaches to extrapolation; Extrapolation of Aq Susceptibility vs Aq Vulnerability; PA Team & TANC need to communicate.			
(2) Example approaches to extrapolation & Pitfalls			
A. "Cluster, Regression-tree & Geostatistical analysis for extrapolation for major ions"	Terri Arnold	15 min	15 min
B. Linear multiple regression approach for Nitrate	Bruce Lindsey	20 min	20 min
C. PCA analysis (by CYBER SEMINAR)	Tom Nolan	20 min	20 min
D. Probability (vulnerability) mapping of nitrate and atrazine: "Examples of 2 methods for probability mapping: wilcoxon tests and logistic regression".	Mike Rupert	30 min	30 min
(3) Wrapup: Guidance, Action items, Other followup: General discussion of approaches & pitfalls leading to general guidance on extrapolation.	All	20 min	20 min

Friday Morning, April 22, 2005

HEALTH BASED SCREENING LEVELS (HBSLs) (2 hrs)	Patty Toccalino (toccalino@ebs.org i.edu) - Session lead		
(1) Introduction: Session objective, relevance of this project to USGS/NAWQA, importance of communicating water-quality results in one voice.	Bill Wilber	5 min	5 min
(2) Health-Based Screening Levels	Patty Toccalino	45 min	45 min
A. Project background & history			
Development of HBSLs			
What HBSLs are (and are not)			
Comparison of HBSLs to other benchmarks			
Benefits of using HBSLs			
B. Guidance: using HBSLs to evaluate water-quality data in a human-human context			
C. Communicating water-quality findings with cooperators			
(3) Questions	All	10 min	10 min

(4) Examples on the use of HBSLs for water-quality data from public-supply wells	Greg Delzer	20 min	20 min
(5) Questions	All	10 min	10 min
(6) Wrapup: Guidance, Action items, Other followup: Solicit feedback from those in attendance on current practices used to share water-quality findings with utilities, homeowners, state DEPs/DEQs, health depts., etc. Ask what information would be useful in a communications guidance document.	Patty Toccalino, Greg Delzer & Leslie DeSimone	30 min	30 min

REPORTS AND PUBLICATIONS (1.5 hrs)	Suzanne Paschke - Session lead		
(1) Report series selection – circular vs. SIR vs. PP	Suzanne Paschke	30 min	5 min
(2) Available templates and guidance – fonts, colors, covers, NAWQA Summary Report comparison and guidance			10 min
(3) Report review, approval and publishing guidance			10 min
(4) Press releases and media coordination			5 min
(5) Report distribution – liaison lists – local study unit and national level coordination	Kelly Warner	20 min	20 min
(6) Web access and web-page organization – regional PA reports vs. local study units or national synthesis	Terri Arnold	20 min	20 min
(7) Wrapup: Guidance, Action items, Other followup	Suzanne Paschke	20 min	20 min

MEETING Wrapup (30 min)			
(1) Summary of Meeting Decisions & Followup Action Items	Wayne Lapham, Ann Ardis, Kelly Warner, NLT	30 min	30 min